

DETAILED ACTION

In response to Applicant's Pre-Appeal brief request for review filed 04/22/2009 and telephone interviewed on 05/14/2009, the examiner's amendment was authorized by attorney of record, Ira Blecker, Attorney for Applicants.

- Claims **6-7 and 16-17** are ***currently canceled***.
- Claims 2-5, 9-11 and 13-15 were previously canceled.
- Claims 1, 8 and 12 were previously presented.

Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

EXAMINER'S AMENDMENT

The application has been amended as follows:

In the Claims:

- Please replace the claims with the following claim set:
 1. (Previously presented) An information processing apparatus comprising:
 - a processor;
 - computer memory;
 - means for creating a digest of a document a layout of which is determined, when said layout being too large to fit in a display screen of a display device or

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when a document reader requires said document to be zoomed for reading characters displayed on the display device, the document including a plurality of regions, each region including one or more display elements, the means for creating comprising:

means for selecting the display elements based on display priorities of the display elements, and for deciding all of selected display elements as a display content of a digest screen under a condition where a total display area of all of the selected display elements does not exceed a required display area;

means for setting a merging relationship among the regions by deciding a merging region, with which a region not being displayed on the digest screen is merged, from among regions displayed on the digest screen based on layout information for the regions in the document, all of the regions being included in the document;

means for ensuring access to information lost by creating the digest and ensuring said digest fits optimally on said display device;

means for deciding, as a display content of a detail screen, a region group including the regions displayed on the digest screen and the region merged with

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the displayed regions in response to that a detail display of the displayed regions is required; and

means for creating control information for controlling a display of the detail screen, wherein the means for deciding the display content of the detail screen creates a digest of the detail screen based on the control information when the region group is too large to fit in the required display area;

wherein the means for deciding the display content of the digest screen further includes means for changing the display content of the digest screen based on an operation of a user; and

wherein the changing means includes means for automatically changing the display content of the digest screen, accompanying the operation of the user, and

further comprising selective implemented performance capability of employing:
means for deciding, as a display content of a detail screen, a region group including regions displayed on a digest screen and a region merged with displayed regions in response to a detail display of the displayed regions is required;

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means for creating control information for controlling a display of the detail screen, wherein the means for deciding the display content of the detail screen creates a digest of the detail screen based on the control information when the region group is too large to fit in the required display area;

wherein the means for deciding the display content of the digest screen further includes means for changing the display content of the digest screen based on an operation of a user;

wherein the changing means includes means for automatically changing the display content of the digest screen, accompanying the operation of the user;

means for transmitting information for creating the digest of the document the layout of which is determined to a client terminal together with the document;

means for obtaining display priorities of a plurality of display elements belonging to each of a plurality of regions of the document based on attributes of the display elements;

2-7. (Cancelled).

8. (Previously presented) A method comprising employing a processor and computer memory for creating a digest of a document a layout of which is determined,

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when said layout being too large to fit in a display screen of a display device or when a document reader requires said document to be zoomed for reading characters displayed on the display device, the document including a plurality of regions, each region including one or more display elements, the step of creating comprising the steps of:

selecting the display elements based on display priorities of the display elements, and for deciding all of selected display elements as a display content of a digest screen under a condition where a total display area of all of the selected display elements does not exceed a required display area;

setting a merging relationship among the regions by deciding a merging region, with which a region not being displayed on the digest screen is merged, from among regions displayed on the digest screen based on layout information for the regions in the document, all of the regions being included in the document; and

ensuring access to information lost by creating the digest and ensuring said digest fits optimally on said display device; and

further comprising as a display content of a detail screen, using a region group including the regions displayed on the digest screen and the region merged with the

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displayed regions in response to that a detail display of the displayed regions is required;

creating control information for controlling a display of the detail screen; and
creating a digest of the detail screen based on the control information when the region group is too large to fit in the required display area;

changing the display content of the digest screen based on an operation of a user; and

further comprising selective implemented performance capability of:

deciding, as a display content of a detail screen, a region group including regions displayed on a digest screen and a region merged with displayed regions in response to a detail display of the displayed regions is required;

creating control information for controlling a display of the detail screen, wherein the step of deciding the display content of the detail screen creates a digest of the detail screen based on the control information when the region group is too large to fit in the required display area;

wherein the step of deciding the display content of the digest screen further includes changing the display content of the digest screen based on an operation of a user;

wherein the changing means includes automatically changing the display content of the digest screen, accompanying the operation of the user;

transmitting information for creating the digest of the document the layout of which is determined to a client terminal together with the document;

obtaining display priorities of a plurality of display elements belonging to each of a plurality of regions of the document based on attributes of the display elements;

creating layout information for the regions in the document; and

wherein the step of obtaining the display priorities further comprises:

arraying, for each of the regions, the display elements belonging to the regions in accordance with a predetermined criterion,

obtaining a ratio of a cumulative length of each of the arrayed display elements in each of the regions by dividing the cumulative length by a total length of the region, and

dividing the ratio of the cumulative length by a significance of the region to which the display element belongs, the ratio having been obtained for each of the display elements.

9-11. (Cancelled).

12. (Previously presented) A physical computer readable medium storing a program comprising code for creating a digest of a document a layout of which is determined, when said layout being too large to fit in a display screen of a display device or when a document reader requires said document to be zoomed for reading characters displayed on the display device, the document including a plurality of regions, each region including one or more display elements, the program allowing a computer to realize:

a function to select the display elements based on display priorities of the display elements, and to decide all of selected display elements as a display content of a digest screen under a condition where a total display area of all of the selected display elements does not exceed a required display area;

a function to set a merging relationship among the regions by deciding a merging region, with which a region not being displayed on the digest screen is merged, from among regions displayed on the digest screen based on layout information for the regions in the document, all of the regions being included in the document; and

a function to ensure access to information lost by creating the digest and ensuring said digest fits optimally on said display device;

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wherein:

the program further allows the computer to realize a function to decide, as a display content of a detail screen, a region group including the regions displayed on the digest screen and the region merged with the displayed regions in response to that a detail display of the displayed regions is required;

the program further allows the computer to realize: a function to create control information for controlling a display of the detail screen; and a function to create a digest of the detail screen based on the control information when the region group is too large to fit in the required display area; and

the program further allows the computer to realize a function to change the display content of the digest screen based on an operation of a user.

13-17. (Cancelled).

Allowable Subject Matter

The prior art made of record:

- Maeda et al., US 20010054049 filed 12/19/2000
- Chen et al., US 20020078097A1 filed 04/18/2001
- Chen et al., US 20060282445A1- Con of 10/306,729 filed 11/27/2002

❖ Claim(s) 1, 8 and 12, are allowed:

The following is a statement of reasons for the indication of allowable subject matter:

Interpreting the claims in light of the specification, Examiner finds the claimed invention is patentably distinct from the prior art of record, which set forth in the followings:

- **Maeda** is directed to a web document display controller. The display controller enables user to analyze the structure of the layout for the web page; to assign regions that reflect the layout structure obtained by the layout structure analyzer and dividing a web page into regions based on the logical structure of the HTML document. Also the controller ensures there is no deterioration of the overall layout of the web page and to prepare an abstract, important portions are retained based on their weighted values. This is generally set forth at Page 6 paragraph [0082-0083], and illustrates at FIG. 2 of Maeda.

- **Chen** is directed to the merging process, wherein the first display area is merging with the second display area and so on. This is generally set forth at Page 1 paragraph [0012], and illustrates at figure(s) 3, and 4a-c of Chen.
- **Chen'445** translates from web content originally created for a large form factor device (e.g. a desktop computer) so that it can be viewed on a small form factor device (e.g. a palm top computer) (at page 1 para [0007]. Chen '445 further discloses the dynamic threshold for the header region calculation based upon the base/height/width threshold and theirs pixels, so that the large web page can be viewed on a small form factor device. This is generally set forth at Page 2 paragraph [0020-0021], and illustrates at FIG. 9 of Chen'445.

Under the broadest reasonable interpretation of the claimed limitation which is consistence with the Applicant's Specification. The prior art cited above fails to teach all of the Applicant's claimed limitation. In particularly, the claimed invention advantageously provides a finer level of detail that enables a means for ensuring access to information lost (e.g., the hidden, invisible region of the web page). information not displayed is preserved, that is "lost" in creating the digest is preserved by providing "**means for ensuring access to information lost**"; [see claim(s) 1, 8 and 12 which cited above and the Applicant's pre-appeal brief request for review at page 2 lines 27-30 and illustrated at figure(s) 9 and 12.]

The Examiner asserts that the claims overcome the prior art of record as describes above when the limitations are read in combination with the respective claimed limitations in their entirety.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quoc A. Tran whose telephone number is 571-272-8664. The examiner can normally be reached on Mon through Fri 8AM - 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doug Hutton can be reached on (571)272-4137. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Quoc A. Tran/
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/DOUG HUTTON/
Supervisory Patent Examiner, Art Unit 2176